

INCLUDING THE SAME

This is a division of application number 09/354,467 filed 15 July 1999.

now U.S. PAT. 6,483,663  
BACKGROUND OF THE INVENTION

[illegible]

The present invention relates to a thin film magnetic recording/reproducing head used for a magnetic disk apparatus, and a magnetic disk apparatus or recording/reproducing apparatus including the same.

10 Description of the Related Art

In a magnetic disk apparatus, data are written or read on or from a recording medium or magnetic disk by a magnetic head. To increase a recording capacity per unit area of a magnetic disk, an areal recording density is required to be enhanced. The areal recording density can be enhanced by increasing a track density and a linear recording density. To increase the track density of the above two factors for enhancing the areal recording density, the track width of the magnetic head is required to be made fine and precise. As the track width becomes narrower, a reproducing output becomes smaller, and therefore, to attain a narrower track width, a reproducing head is required to be changed from a MR (Magneto-resistive) head having been extensively available at present to a GMR